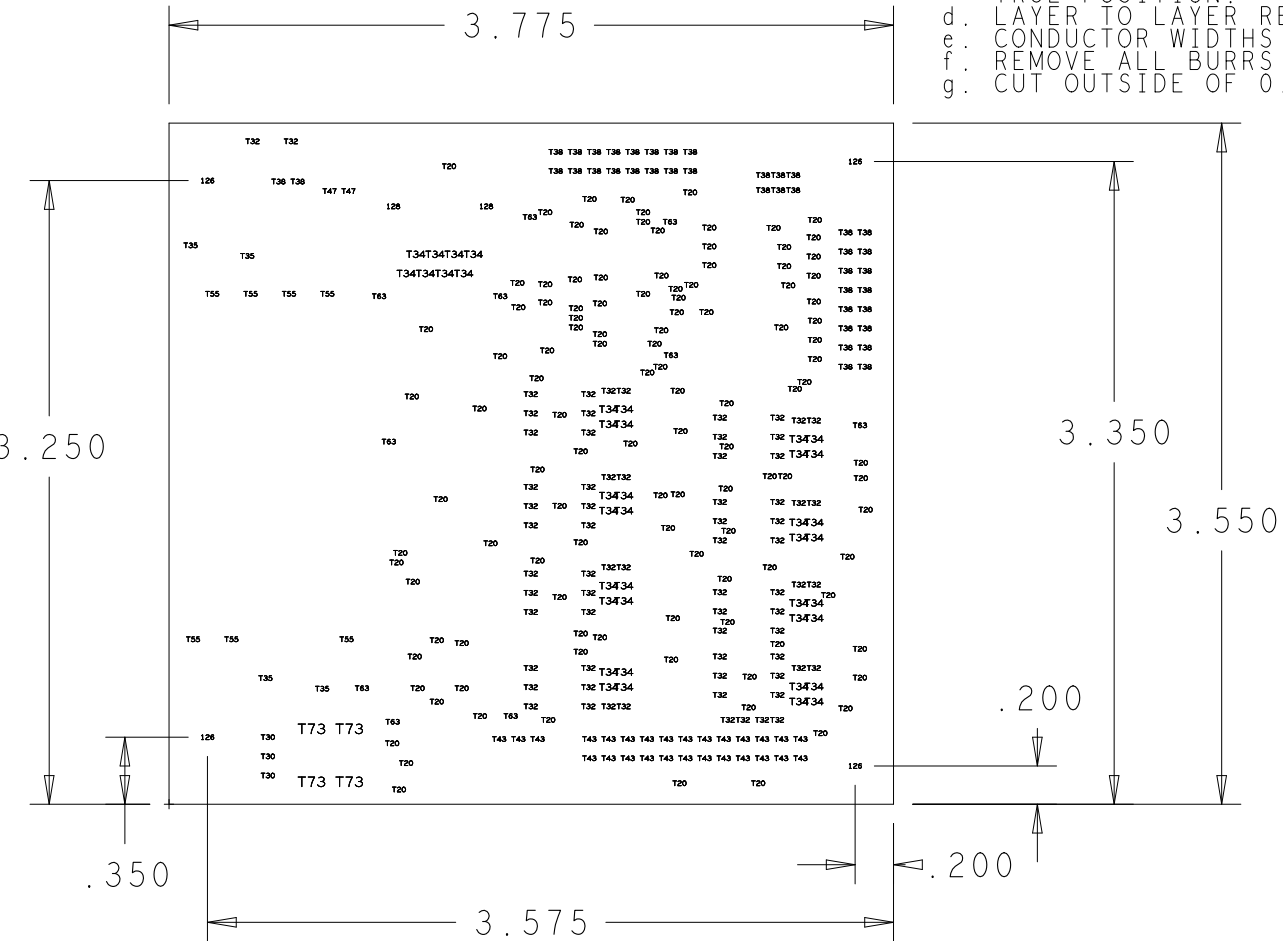


1oz TOP COPPER LAYER 1
1oz INNER COPPER (GND) LAYER 2
1oz INNER COPPER (PWR) LAYER 3
1oz BOTTOM COPPER LAYER 4

- CLASS II FABRICATION NOTES: (UNLESS OTHERWISE SPECIFIED)
- BOARDS SHALL BE 100% NET LIST TESTED FOR OPENS AND SHORTS PER PROVIDED IPC-D-356 NETLIST.
 - THIS BOARD SHALL BE MANUFACTURED IN ACCORDANCE WITH IPC-6012A CLASS II SPECIFICATIONS AND MEET IPC-600 CLASS II ACCEPTABILITY STANDARDS.
 - MATERIAL:
 - FR4 PER IPC 4101B/24 /26 , OR /28.
 - SIGNAL LAYERS TO BE 1 OZ. COPPER.
 - PLANE LAYERS TO BE 1 OZ. COPPER.
 - OVERALL THICKNESS TO BE 0.062" +/- 10%"
 - LEGEND:
 - WHITE NON-CONDUCTIVE EPOXY INK BOTH SIDES.
 - SOLDERMASK:
 - APPLY LIQUID PHOTO-IMAGABLE (LPI) SOLDER MASK OVER BARE COPPER PER IPC-SM-840 CLASS H, COLOR GREEN, BOTH SIDES.
 - PLATING FINISH:
 - HOT AIR SOLDER LEVELING (HASL) SN63A SnPb SOLDER.
 - ~~IMMERSION SILVER IAG.~~
 - PROCESS ALLOWANCES:
 - MAXIMUM BOW AND TWIST ACROSS DIAGONAL CORNERS OF THE BOARD SHALL NOT EXCEED 0.75%.
 - HOLE DIMENSIONS APPLY AFTER PLATING.
 - ALL HOLES SHALL BE LOCATED WITHIN 0.003" DIAMETER OF TRUE POSITION.
 - LAYER TO LAYER REGISTRATION SHALL BE WITHIN 0.003"
 - CONDUCTOR WIDTHS AND SPACING SHALL BE WITHIN +/- 0.002".
 - REMOVE ALL BURRS AND BREAK SHARP EDGES 0/015" MAX.
 - CUT OUTSIDE OF 0.001" BOARD OUTLINE.



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ORIGINAL RELEASE	03/12	APPROVED
A-1	CORRECTED NON-PLATED THROUGH HOLE (T63) ON LANTRONIX.	03/12	APPROVED

DRILL CHART: TOP to BOTTOM			
ALL UNITS ARE IN MILS			
FIGURE	SIZE	PLATED	QTY
T20	20.0	PLATED	115
T30	30.0	PLATED	3
T32	32.0	PLATED	70
T34	34.0	PLATED	40
T35	35.0	PLATED	4
T38	38.0	PLATED	40
T43	43.0	PLATED	27
T47	47.0	PLATED	2
T55	55.0	PLATED	7
T63	63.0	PLATED	10
T73	73.0	PLATED	4
T26	126.0	PLATED	4
T28	128.0	PLATED	2

UNLESS OTHERWISE SPECIFIED	SIGNATURES	DATE	MARS SPI ISOLATION BOARD			
DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PL DECIMALS +/- 0.02" 3 PL DECIMALS +/- 0.005" ANGLES +/- 1 Degree FRACTIONS ,			MONTEREY BAY AQUARIUM RESEARCH INSTITUTE 7700 SANDHOLDT ROAD MOSS LANDING, CA			
	DESIGNED BY: CHAD KEYC		SIZE B	REVISION A-1	DWG NO 10020804	
	LAYOUT BY: JOSE ROSAL		SCALE 1 - 1			SHEET 1 - 1